Assignment 3

Goal:
Learn how to link SQL a database to HTTP server & learn to expose SQL queries RESTful web services.

Description:
This assignment focusses on the use of SQL databases that are linked to HTTP servers AND the development of REST web services. Please note that all data is to be stored in the SQL database.

Part a)
Develop REST web services that allow:

- Creating a chatroom
- Getting the list of the existing chatroom
- Deleting a chatroom
- Posting to a chatroom
- Retrieving all posts for a chatroom
- Checking if the chatroom has been modified since the last request (make sure to use ETAG)
- List the chatrooms that have seen the most post for a given time interval

Part b)
Develop a set of web-pages that showcase the use of the REST web services developed in part a (you can reuse part/parts of your assignment 2).

Part c)
Develop a mechanism that ensures that only (web) developers you approve are able to use your REST web services.

Implementation:
You are free to choose any SQL database e.g. but you can only use a servlet container (e.g. Tomcat) or NodeJS as HTTP servers.

Marking:

Please present your assignment at the tutorials for marking to the TA. You can also present the assignments to the class instructor.